

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide



2024 - 2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

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Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: Veterinary Medicine

Scientific Department: public health

Academic or Professional Program Name: Genetic

Final Certificate Name: Bachelor of Veterinary Medicine and Surgery

Academic System: Semester

Description Preparation Date: 5/10/2024

File Completion Date: 6 / 10/2024

Signature:

Head of Department Name:

Ph.D. Ali Qays Jalil

Date: 6/10/2024

Signature:

Scientific Associate Name:

Proph. Dakheel Hussein Hedree

Date: 6/10/2024

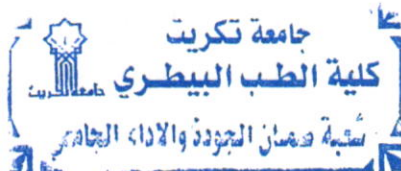
The file is checked by:

Assist. Prof. Dr Ahmed Abdullah Sultan

Quality Assurance And University Performance Manager

Date : 6 / 10 / 2024

Signature:



Approval of the Dean

Prof. Dr. Bashar Sadeq Numi

1. See the program

to be one of the leading higher education Medicine Veterinary college Seeking in the field of modern education and scientific Tikrit is the University institutions of research through its scientific, research and administrative activities. It also works and professors to make them active to provide an integrated path for its students a and creative in serving society in the fields of teaching the skills and sciences of and the genetic aspect and its animals improving veterinary medicine, raising and .developments

2. Program message

and graduate leading scientific and leadership competencies in Working to prepare veterinary medicine and its sciences and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, and refining the minds of students scientifically and cognitively, as well as training a and emphasizing social and cultural values and responding to the requirements of .the local market

3. Program Goals

1. Applying Tikrit of a university Embodying the vision, mission and goals the best educational practices with a focus on ensuring and enhancing quality .and performance
2. Preparing specialized cadres capable of serving the community and .preparing for the preparation of future specializations
3. field of veterinary medicine the the level of knowledge of the student in he outputs of With t knowledgeable to be scientifically and preparing him variations, and structures genetic identifying genetics vocabulary through and enhancing his etc migration, mutations, selection, naturalization, alleles, paying manage fields and herds of different animals, as well as ability to .to successful management methods attention
4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of education and .learning
5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the .nation
6. Paying attention to intellectual and cultural construction through

in the experiments of inheritance openness to the experiences of other countries
 . and selection

7. Working to meet the community's need in the field of specialization by
 ans that keep pace with scientific and practical developing various pl
 .developments in this specialization

4. Program accreditation

National institutional accreditation standards for higher education institutions in
 Iraq

5. Other external influences

library and Internet, veterinary hospital, veterinary Laboratories, animal field
 .projects, journals and research

6. Program structure

* comments	percentage	Study unit	Number of courses	Program structure
Basic course		2	30	Enterprise requirements
			Yes	College requirements
			Yes	Branch requirements
			nothing	summer training
				Other

.Notes may include whether the course is core or elective *

7. Program description

Credit hours	Name of the course or course	Course or course code	Year/level
theore tical	Genetics	V.E H2106	/2024-2025 second

8. Expected learning outcomes of the programme

Knowledge

- 1- .Cognitive goals
- 2- Identify genetic structures and variations, alleles, naturalization, selection, . mutations, migration, etc
- 3- and methods of genetics Enabling students to know and understand .management and animal husbandry

Skills

- 1- Providing the student with skills in how to deal with different types of .animals
- 2- Providing the student with skills in how to use field and laboratory .equipment and tools
- 3- to select breeds with Providing the student with the appropriate skills .for animals high production efficiency

Value

There is a committee formed in the college that is responsible for evaluating the application of the protocol for dealing with animals and the extent of researchers' commitment to the paragraphs of the protocol. Accordingly, the committee is following up on the researchers' commitment to its listed responsible paragraphs and inspecting animal facilities in order to ensure compliance with Animal .the selection of breeds with high production efficiency and regulations member of the Iraq is a m that care and use, noting OIE .

9. Teaching and learning strategies

- 1- Identify genetic structures and variations, alleles, naturalization, selection, .mutations, migration, and others
- 2- Identify the most important signs of health and indications of the occurrence .diseases and accompanying symptoms of
- 3- Familiarity with the nutritional needs of each animal and each physiological .stage

10. Evaluation methods

- 1- .Daily, monthly and final exams

- 2- .Reports
- 3- Student activities by keeping laboratory animals and participating in .conducting experiments on them

11. education institution						
Faculty members						
Preparing the teaching staff		Special requirements/skil (ls (if any		Specialization		Scientific rank
lecturer	angel			private	general	
	angel				animal production	

Professional development	
Orienting new faculty members	
Guiding new members of the teaching staff on the optimal method for presenting and presenting lectures, emphasizing the practical aspect in the field and applying .the theoretical aspect to animals	
Professional development for faculty members	
the Explaining the mechanism for arranging and sequencing lectures, as well as .assessment and evaluation methods used to fix grades for students	

12. Acceptance standard	
electronic form prepared for this purpose Central admission according to the	

13. The most important sources of information about the program	
1-)2014 2006, Spencer& Cummings, Clug 1 .-Genetics Concepts	
2- .External source books	
3- Strachan & Reed (2004).Molecular Human Genetics.	
4- .scientific websites Specialized	

14. Program development plan

the course to Creating new vocabulary to be added
annually % 15

Less than But no

Program skills chart												
Learning outcomes required from the programme												
Value	Skills				Knowledge				Essential or optional	Course Name	Course Code	Year/level
	C1	C2	C3	C4	B1	B2	B3	B4				
			—									2024-2025
		⊗							⊗			
									⊗	Genetics	V.E GEN126	
												The first the second

- Please check the boxes corresponding to the individual learning outcomes of the subject programme

Course description form

1. : Course Name	
Genetics	
2. : Course Code	
V.E GEN126	
3. : Year / Semester	
quarterly	
4. Date this description was prepared:	
20/1/2025	
5. Available forms of attendance:	
My presence only	
6. :(total)/number of units (total) Number of study hours	
. hours annually 0 3	
. An hour a week 2	
7. Name of the course administrator (if more than one name is mentioned)	
.M.D. Osama Hamid Shehab Osamahameed61@tu.edu.iq	
8. Course objectives	
Identify genetic structures and variations, alleles, naturalization, selection, – .mutations, migration, etc .Teaching the student laboratory skills on how to deal with animals – tools used to control Teaching the student how to use laboratory equipment and – and control animals	
9. Teaching and learning strategies	
-1 .Education strategy, collaborative concept planning -2 .Brainstorming education strategy 3 Education Strategy Notes Series -	The strategy

10- Courses level: Second year					
Course Name: Theoretical Genetic/ 2 hours					
Semester: first					
Evaluation method	Teaching method	Name of the unit/course or subject	Required learning outcomes	hours	the week
Daily exam questions and discussion	+ Lecture data show	Development of Genetics and its theories. 3	Learn about the development of genetics	3 theoretical hours	1
Daily exam questions and discussion	+ Lecture data show	Cell and chromosome 3	Cell behavior and chromosomes	3 theoretical hours	2
Daily exam questions and discussion	+ Lecture data show	Mendel's Laws and its amendments 3	Mendel's laws and their modifications	1 theoretical hour	3
Daily exam questions and discussion	+ Lecture data show	Genetics and statistics in the analysis of genealogy 3	Genetics, statistics and their role in genealogical analysis	3 theoretical hours	4
Daily exam questions and discussion	+ Lecture data show	The interaction between genes 3	Overlapping between genes	3 theoretical hours	5
Daily exam questions and discussion	+ Lecture data show	Multiple alleles and 3	Polyalleles and allelic errors	3 theoretical hours	8-6
Daily exam questions and discussion	+ Lecture data show	Assigned sex and genetics associated with it 3	Determining sex and its connection to heredity	3 theoretical hours	10-9
Daily exam questions and discussion	+ Lecture data show	Link, transit and genetic maps 3	Linkage, crossing, and genetic maps	3 theoretical hours	13-11
Daily exam questions and discussion	+ Lecture data show	Chromosomal mutations 2	Chromosomal mutations	hours 2 theoretical	14
Daily exam questions and discussion	+ Lecture data show	Chemical basis and engineering of heredity 2	Chemical bases and genetic engineering	hours 2 theoretical	15
Examine					

Dr. Ali Q. Jalil

Head of public health branch

20 – 1 – 2025